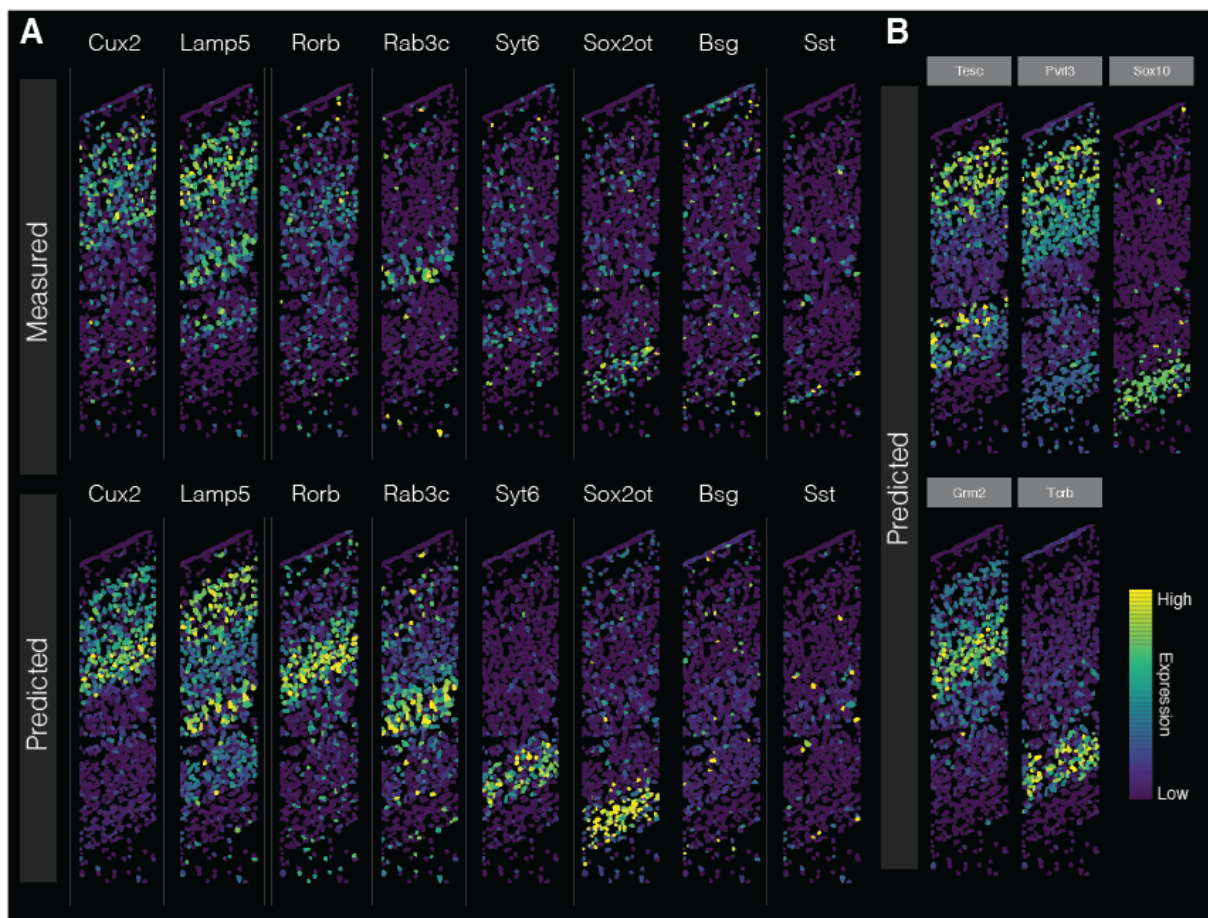


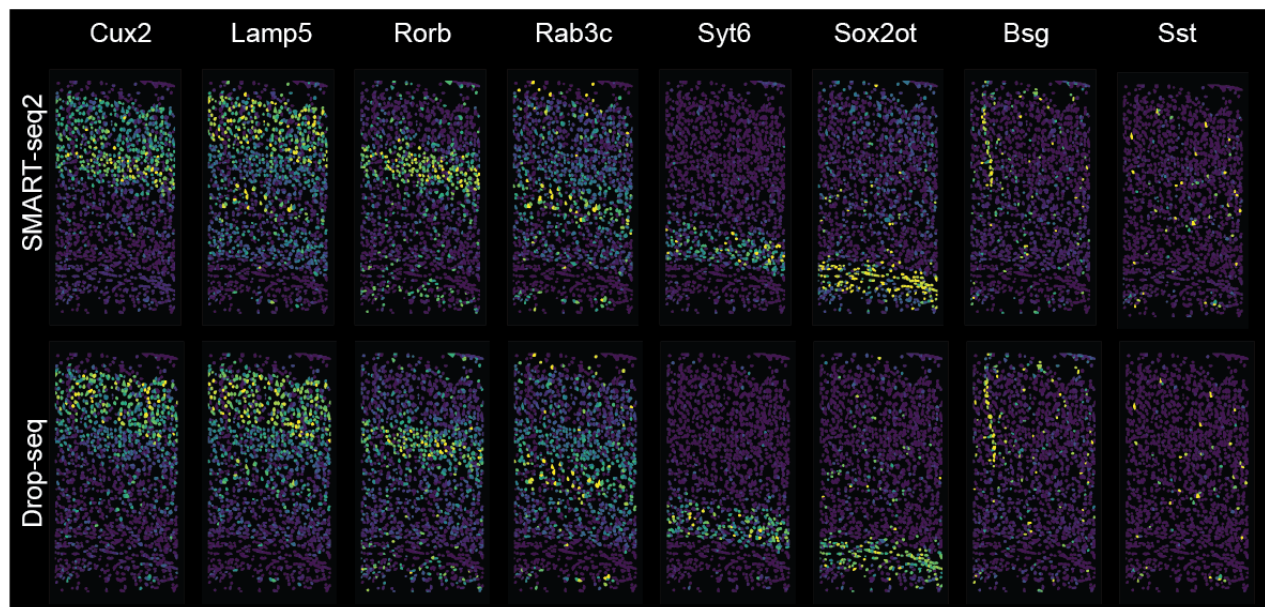
## Supplementary File 2. Related to Figure 5.

Page 2 represents the spatial patterns of gene expression in the mouse brain (STARMap replicate 2) **(A)** Measured and predicted gene expression patterns for a subset of genes measured in the STARmap experiment, for the second biological replicate (as for Figure 5B). **(B)** Gene expression patterns for four genes not measured by STARmap (as for Figure 5C).

Page 3 represents the spatial imputation of gene expression using either the Drop-seq or SMART-seq2 dataset as the scRNA-seq reference. Predicted gene expression patterns for leave-one-out cross validations of 8 genes (same genes shown in 5B) for STARmap replicate 1 **(A)** and replicate 2 **(B)**.



A



B

